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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
09/077,207	05/26/98	INOUE	JA040840

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EXAMINER

PRENTY, M

ART UNIT

PAPER NUMBER

2822

8

DATE MAILED: 09/28/00

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

# Office Action Summary

Application No.  
**09/077,207**

Applicant(s)  
**INOUE et al.**

Examiner  
**Prenty**

Group Art Unit  
**2822**



☒ Responsive to communication(s) filed on Aug 18, 2000

☒ This action is **FINAL**.

☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire three month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

## Disposition of Claims

☒ Claim(s) 1-21 is/are pending in the application.

Of the above, claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

☐ Claim(s) \_\_\_\_\_ is/are allowed.

☒ Claim(s) 1-3, 7-9, and 14-17 is/are rejected.

☒ Claim(s) 4-6, 10-13, and 18-21 is/are objected to.

☐ Claims \_\_\_\_\_ are subject to restriction or election requirement.

## Application Papers

☐ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

☐ The drawing(s) filed on \_\_\_\_\_ is/are objected to by the Examiner.

☐ The proposed drawing correction, filed on \_\_\_\_\_ is ☐ approved ☐ disapproved.

☐ The specification is objected to by the Examiner.

☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. § 119

☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

☐ All ☐ Some\* ☐ None of the CERTIFIED copies of the priority documents have been  
☐ received.

☐ received in Application No. (Series Code/Serial Number) \_\_\_\_\_.

☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\*Certified copies not received: \_\_\_\_\_.

☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

## Attachment(s)

☐ Notice of References Cited, PTO-892

☐ Information Disclosure Statement(s), PTO-1449, Paper No(s). \_\_\_\_\_

☐ Interview Summary, PTO-413

☐ Notice of Draftsperson's Patent Drawing Review, PTO-948

☐ Notice of Informal Patent Application, PTO-152

--- SEE OFFICE ACTION ON THE FOLLOWING PAGES ---

This Office Action is in response to the amendment filed August 18, 2000.

Claim 9 is rejected under 35 U.S.C. §112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Specifically, claim 9 is unclear in reciting "wherein said heat dissipating extension extends from both sides of said source-drain region" because claim 7, upon which claim 9 depends, recites "wherein said heat dissipating extension extends from both sides of said channel region." Claim 9 should apparently depend on claim 1.

Claims 1 and 14-17 are rejected under 35 U.S.C. §102(e) as being anticipated by Koyama et al. (United States Patent 5,616,935). See Koyama et al's Figure 2A, for example. Note the source-drain wiring layer extension.

Claims 1-3, 7, 8 and 17 are rejected under 35 U.S.C. §102(e) as being anticipated by Kerber et al. (United States Patent 5,623,155). See Kerber et al's Figure 1, for example. Note the gate and channel extensions.

Claims 1-3, 9, 14 and 17 are rejected under 35 U.S.C. §102(e) as being anticipated by Han et al. (United States Patent 5,920,085). See Han et al's Figure 4, for example. Note the gate and source/drain extensions.

Claims 1, 9, 15 and 16 are rejected under 35 U.S.C. §102(e) as being anticipated by Yamazaki et al. (United States Patent 5,959,313). See Yamazaki et al's Figures 3 and 6, for example. Note the source/drain extensions.

Claims 1-3, 14 and 17 are rejected under 35 U.S.C. §102(e) as being anticipated by Miyamoto et al. (United States Patent 6,064,090). See Miyamoto et al's Figures 2, 14 and 31, for example. Note the gate extension.

Claims 4-6, 10-13 and 18-21 are objected to as being dependent on a rejected base claim, but would be allowable over the prior art of record if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Applicant's arguments are not persuasive because they fail to substantively address the rejections. Specifically, the applicant fails to address Koyama et al's source-drain wiring layer extension, Kerber et al's gate and channel extensions, Han et al's gate and source/drain extensions, Yamazaki et al's source/drain extensions and Miyamoto et al's gate extension.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 C.F.R. §1.136(a).

**Applicant's reply to the final rejection must include cancellation of, or appeal from the rejection of, each rejected claim. 37 CFR 1.113.**

A SHORTENED STATUTORY PERIOD FOR RESPONSE TO THIS FINAL ACTION IS SET TO EXPIRE THREE MONTHS FROM THE DATE OF THIS ACTION. IN THE EVENT A FIRST RESPONSE IS FILED WITHIN TWO MONTHS OF THE MAILING DATE OF THIS FINAL ACTION AND THE ADVISORY ACTION IS NOT MAILED UNTIL AFTER THE END OF THE THREE-MONTH SHORTENED STATUTORY PERIOD, THEN THE SHORTENED STATUTORY PERIOD WILL EXPIRE ON THE DATE THE ADVISORY ACTION IS MAILED, AND ANY EXTENSION FEE PURSUANT TO 37 C.F.R. §1.136(a) WILL BE CALCULATED FROM THE MAILING DATE OF THE ADVISORY ACTION. IN NO EVENT WILL THE STATUTORY PERIOD FOR RESPONSE EXPIRE LATER THAN SIX MONTHS FROM THE DATE OF THIS FINAL ACTION.

Registered practitioners can telephone examiner Prenty at (703) 308-4939.

All other parties should telephone (703) 308-0956.

*Mark Prenty*  
Mark V. Prenty  
Primary Examiner